

Abstract

A method for the verification of the calculated radiation dose of an ion beam therapy system that comprises a grid scanner device, arranged in a beam guidance system (6, 8), having vertical deflection means (13) and horizontal deflection means (14) for the vertical and horizontal deflection of a treatment beam (11) perpendicular to its beam direction, with the result that the treatment beam (11) is deflected by the grid scanner device to an isocentre (10) of the irradiation site and scans a specific area surrounding the isocentre (10), irradiation being carried out on the basis of automatically calculated radiation dose data. The accuracy of the calculation of the radiation dose data is verified by using a phantom, a discrepancy between the radiation dose calculated for the at least one measurement point of the phantom and a radiation dose measured for the at least one measurement point being determined and evaluated.

(Fig. 2)